L Number	Hits	Search Text	DB	Time stamp
1	0	347/63-65.ccls. and 347/68-72.ccls. and "PTFE"	USPAT;	2004/08/18 13:45
			EPO; JPO	
2	0	347/56-65.ccls. and 347/68-72.ccls. and "PTFE"	USPAT;	2004/08/18 13:45
			EPO; JPO	
3	3	347/56-65.ccls. and 347/68-72.ccls. and (thermal near	USPAT;	2004/08/18 13:46
		expansion)	EPO; JPO	0004/00/40 40:47
4	0	347/56-65.ccls. and 347/68-72.ccls. and (high near	USPAT;	2004/08/18 13:47
5	126	coefficient) 347/\$.ccls. and piezoelectric and thermal and (high near	EPO; JPO USPAT;	2004/08/18 14:09
	120	coefficient)	EPO; JPO	2004/00/10 14:00
6	13	(347/\$.ccls. and piezoelectric and thermal and (high near	USPAT;	2004/08/18 13:47
	.0	coefficient)) not silverbrook-\$.in.	EPO; JPO	
7	5	347/\$.ccls. and (high near coefficient near expansion)	USPAT;	2004/08/18 14:12
			EPO; JPO	
8	0	(thermal near printhead\$1) and (high near coefficient near	USPAT;	2004/08/18 14:13
		expansion)	EPO; JPO	
9	0	printhead\$1 and (high near coefficient near expansion)	USPAT;	2004/08/18 14:13
			EPO; JPO	0004/00/40 44:44
10	1284	high near coefficient near expansion	USPAT;	2004/08/18 14:14
			EPO; JPO; DERWENT	
11	51	(high near coefficient near expansion) and (347/\$.ccls.	USPAT;	2004/08/18 14:36
'	31	216/\$.ccls. 29/\$.ccls.)	EPO; JPO;	200-1700/10 14:00
		210/4.0010. 20/4.0010.)	DERWENT	
12	1	jp404001051a	USPAT;	2004/08/18 14:19
	-	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	EPO; JPO;	
			DERWENT	
13	4	("4533082" "4605167" "4702418" "5487378").PN.	USPAT	2004/08/18 14:34
14	2.	6543884.pn.	USPAT;	2004/08/18 14:38
			EPO; JPO;	
15	12	 ("4789425" "4864329" "4866461" "4894664" "5016024"	DERWENT	2004/08/18 14:37
15	12	"5198834" "5322594" "5463411" "5489930" "5638101"	OSFAI	2004/00/10 14.0/
		"5648806" j "5710070").PN.		
16	695	347/65.ccls. not silverbrook-\$.in.	USPAT;	2004/08/18 14:39
'-		,	EPO; JPO;	
			DERWENT	
17	50	(347/65.ccls. not silverbrook-\$.in.) and (thermal near	USPAT;	2004/08/18 14:39
		expansion)	EPO; JPO;	
40	20	(247/05 and most all controls 0 in) and (thermal most	DERWENT	2004/08/18 14:52
18	36	(347/65.ccls. not silverbrook-\$.in.) and (thermal near expansion near coefficient)	USPAT; EPO; JPO;	2004/00/10 14.52
		expansion near coefficient)	DERWENT	
19	2	5877791.pn.	USPAT;	2004/08/18 14:53
'	_	· · · · · · · · · · · · · · · · · · ·	EPO; JPO;	
			DERWENT	
20	2	5989445.pn.	USPAT;	2004/08/18 14:53
			EPO; JPO;	
]		047/54	DERWENT	2004/09/47 49:24
-	447	347/54	USPAT; EPO; JPO	2004/08/17 18:31
_	6	"4819009"	USPAT;	2000/09/19 13:57
-		101000	EPO; JPO	
-	70055	electromag\$ and coil	USPAT;	2000/09/20 17:06
		•	EPO; JPO	
-	375000	piston or plunger	USPAT;	2000/09/20 17:07
			EPO; JPO	
-	9	(347/54) and (electromag\$ and coil) and (piston or plunger)	USPAT;	2000/09/20 17:17
		(247/C colo) and (plantrament and coil) and (ninten ar	EPO; JPO	2000/00/20 17:17
-	50	(347/\$.ccls.) and (electromag\$ and coil) and (piston or	USPAT; EPO; JPO	2000/09/20 17:17
_	1191	plunger) magnetostrictive adj (material or actuator)	USPAT;	2000/09/22 12:43
-	1191	I magnetostrictive day (material of actuator)	EPO; JPO	

-	145447	magnetic adj field	USPAT; EPO; JPO	2000/09/22 09:53
-	663	(magnetostrictive adj (material or actuator)) and (magnetic	USPAT;	2000/09/22 14:49
_	5	adj field) 347/\$.ccls. and ((magnetostrictive adj (material or actuator))	EPO; JPO USPAT;	2000/09/22 14:48
		and (magnetic adj field))	EPO; JPO	
-	3	magnetostrictive adj (paddle or diaphragm)	USPAT;	2000/09/22 14:47
<u>-</u> .	108	terfenol-D	EPO; JPO USPAT;	2000/09/22 14:48
			EPO; JPO	
-	0	347/\$.ccls. and ((magnetostrictive adj (material or actuator)) and (magnetic adj field)) and terfenol-D	USPAT; EPO; JPO	2000/09/22 14:49
-	60	(magnetostrictive adj (material or actuator)) and (magnetic	USPAT;	2000/09/22 15:30
	30	adj field) and terfenol-D	EPO; JPO	2000/09/22 15:30
-	39	motamedi-\$.in.	USPAT; EPO; JPO	2000/09/22 15.50
-	10544	sma or (shape adj memory adj alloy)	USPAT;	2000/09/25 15:00
_	489	martensitic adj phase	EPO; JPO USPAT;	2000/09/25 12:13
			EPO; JPO	
-	587	austenitic adj phase	USPAT; EPO; JPO	2000/09/25 12:14
-	1	((sma or (shape adj memory adj alloy)) and (martensitic adj	USPAT;	2000/09/25 12:14
	404	phase) and (austenitic adj phase)) and 347/\$.ccls.	EPO; JPO	2000/00/25 42:22
-	101	(sma or (shape adj memory adj alloy)) and (martensitic adj phase) and (austenitic adj phase)	USPAT; EPO; JPO	2000/09/25 12:20
-	3925	sma or (shape adj memory adj alloy) and 347/\$.ccls.	USPAT;	2000/09/25 15:00
_	65	(sma or (shape adj memory adj alloy)) and 347/\$.ccls.	EPO; JPO USPAT;	2000/09/25 15:03
			EPO; JPO	
-	4	actuator and ((sma or (shape adj memory adj alloy)) and 347/\$.ccls.)	USPAT; EPO; JPO	2000/09/25 15:05
-	3	ejector and ((sma or (shape adj memory adj alloy)) and	USPAT;	2000/09/25 15:06
	9	347/\$.ccls.) "0634273"	EPO; JPO USPAT;	2003/09/21 16:42
		0004270	US-PGPUB;	2000,00,21 10.12
			EPO; JPO; DERWENT	
_	3991177	ep "634273" a2	USPAT;	2003/09/21 16:43
			US-PGPUB;	
			EPO; JPO; DERWENT	
-	10	"634273"	USPAT;	2003/09/21 16:43
			US-PGPUB; EPO; JPO;	
		 CFE7077	DERWENT	2002/00/22 00:42
-	4	"6557977"	USPAT; US-PGPUB;	2003/09/22 08:13
			EPO; JPO;	
_		silverbrook-\$.in and (nozzle near (guard\$3 protect\$3))	DERWENT USPAT;	2004/08/02 17:57
			EPO; JPO	
-	108	silverbrook-\$.in. and (nozzle near (guard\$3 protect\$3))	USPAT; EPO; JPO	2004/08/02 17:57
-	29	(silverbrook-\$.in. and (nozzle near (guard\$3 protect\$3))) and	USPAT;	2004/08/02 18:31
	159	347/54.ccls. (MEMS near (substrate\$1 nozzle\$1 chamber\$1))	EPO; JPO USPAT;	2004/08/17 18:40
			EPO; JPO	
-	22	((MEMS near (substrate\$1 nozzle\$1 chamber\$1))) and 347/\$.ccls.	USPAT; EPO; JPO	2004/08/02 18:33
-	11	("1941001" "3373437" "3416153" "3946398" "4346387"	USPAT	2004/08/02 18:35
	}	"4894664" "5812159" "5825385" "5880759" "6079821" "6312112").PN.		
_	1	6247790.pn.	USPAT;	2004/08/17 18:35
	1		EPO; JPO	\vee

-	0	MEMS same substrate\$1 same CMOS same (fluid near	USPAT;	2004/08/17 18:37
		channel\$1)	EPO; JPO	•
-	26	"MEMS" and (substrate\$1 same "CMOS") and (fluid near	USPAT;	2004/08/17 18:37
		channel\$1)	EPO; JPO	
-	1466	((MEMS microelectro\$) near (substrate\$1 nozzle\$1	USPAT;	2004/08/17 18:41
		chamber\$1))	EPO; JPO	
-	33	(((MEMS microelectro\$) near (substrate\$1 nozzle\$1	USPAT;	2004/08/17 18:49
		chamber\$1))) and 347/\$.ccls.	EPO; JPO	0004/00/47 40:50
-	1	5989445.pn.	USPAT;	2004/08/17 18:52
-	6	 ("3921916" "4455192" "5308442" "5385635" "5585827"	EPO; JPO USPAT	2004/08/17 18:52
-	° ا	(3921910 4433192 3308442 3363633 3363627 "5588597").PN.	USPAI	2004/06/17 10.32
_	714	347/65.ccls.	USPAT:	2004/08/17 18:53
_	''	347703.0013.	EPO; JPO	2004/00/17 10:55
_	27	347/65,ccls. and "MEMS"	USPAT:	2004/08/17 18:58
		o in oo, oo, o and in Emo	EPO; JPO	200 1100111 10.00
<u>-</u>	1 1	5828394.pn.	USPAT;	2004/08/18 08:41
			EPO; JPO	
-	1	6712986.pn.	USPAT;	2004/08/18 08:14
			EPO; JPO	
-	1	5828394.pn. and (paper medium sheet)	USPAT;	2004/08/18 10:26
			EPO; JPO	
-	3871	347/\$.ccls. and (piezoelectric same (thermal heat\$3 bubble\$1	USPAT;	2004/08/18 10:27
		actuator\$1))	EPO; JPO	
-	3694	(347/\$.ccls. and (piezoelectric same (thermal heat\$3	USPAT;	2004/08/18 10:28
		bubble\$1 actuator\$1))) not silverbrook-\$.in.	EPO; JPO	
-	420	((347/\$.ccls. and (piezoelectric same (thermal heat\$3	USPAT;	2004/08/18 11:29
		bubble\$1 actuator\$1))) not silverbrook-\$.in.) and (conductive	EPO; JPO	
	6	resistive) and (high with coefficient expansion)	LICDAT	2004/08/18 11:30
-	٥ ا	(((347/\$.ccls. and (piezoelectric same (thermal heat\$3 bubble\$1 actuator\$1))) not silverbrook-\$.in.) and (conductive	USPAT; EPO; JPO	2004/00/10 11.30
		resistive) and (high with coefficient expansion)) and	LFO, 3FO	1
		serpentine		
_	18	347/63-65.ccls. and kodak	USPAT;	2004/08/18 11:21
			EPO; JPO	
-	28	347/63-65.ccls. and 347/68-72.ccls.	USPAT;	2004/08/18 13:44
			EPO; JPO	
-	1	(347/63-65.ccls. and 347/68-72.ccls.) and (thermal with	USPAT;	2004/08/18 11:28
		actuator\$1)	EPO; JPO	
-	295	347/\$.ccls. and (thermal with actuator\$1) and piezoelectric	USPAT;	2004/08/18 11:29
		and (thermal bubble heat\$3)	EPO; JPO	
-	196	(347/\$.ccls. and (thermal with actuator\$1) and piezoelectric	USPAT;	2004/08/18 11:29
		and (thermal bubble heat\$3)) and (conductive resistive) and	EPO; JPO	
	[4	(high with coefficient expansion)	LICDAT:	2004/08/18 11:30
-	1	(((347/\$.ccls. and (thermal with actuator\$1) and piezoelectric and (thermal bubble heat\$3)) and (conductive resistive) and	USPAT; EPO; JPO	2004/00/10 11.30
	ŀ	(high with coefficient expansion)) and serpentine) not	250, 350	
		silverbrook-\$.in.		
_	48		USPAT;	2004/08/18 11:30
i		and (thermal bubble heat\$3)) and (conductive resistive) and	EPO; JPO	
		(high with coefficient expansion)) and serpentine	=: -, -: -	
		1) 		